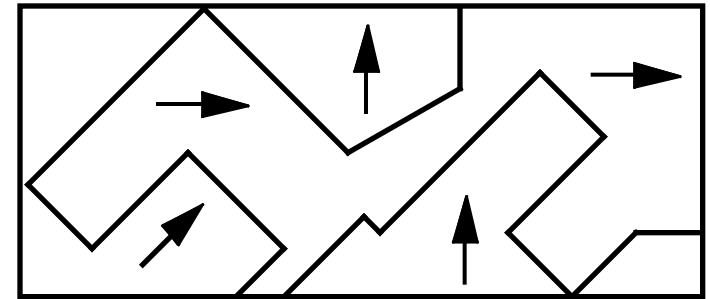
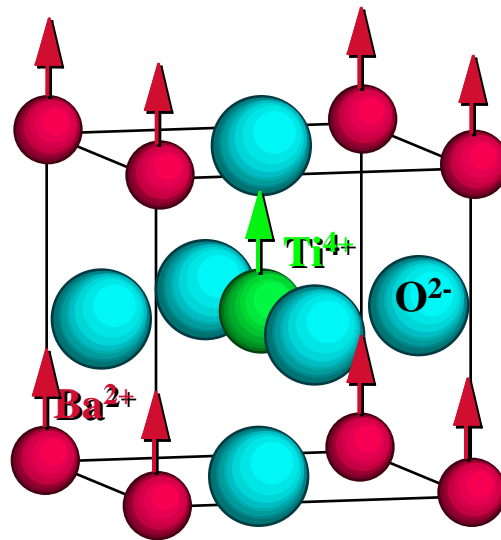


# Ferroelectric Polarization in BaTiO<sub>3</sub> Mapped at High Resolution

Unit cell of BaTiO<sub>3</sub>. Arrows indicate small displacements of the Ba<sup>2+</sup> and the Ti<sup>4+</sup> ions relative to the lattice of O<sup>2-</sup> ions. These displacements lead to a net polarization and a corresponding distortion of the unit cell.



Schematic drawing of ferroelectric domains. The polarization vector switches direction across the domain boundaries.

Vector plot of the displacement field across a ferroelectric domain boundary determined from a high resolution electron micrograph.

